

Shenandoah Crossing STP VA0076678

Form Approved 1/14/99 OMB Number 2040-0086

FORM 2A

NPDES FORM 2A APPLICATION OVERVIEW

NPDES

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

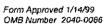
BASIC APPLICATION INFORMATION:

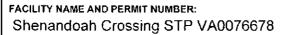
- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions 8.1 through 8.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)





ВА	SIC APPLICA	TION INFO	RMATION		
PAR	T A. BASIC APPL	ICATION INFO	ORMATION FOR ALL AF	PPLICANTS:	
All tr	eatment works must	complete questi	ons A.1 through A.8 of this	Basic Application Information packet.	
A.1.	Facility Information				
	Facility name	Shenando	ah Crossing STP		
	Mailing Address	174 Horse	shoe Cir		
		Gordonsvi	lle, VA 22942		
	Contact person	Tim Bernh	ardt		
	Title	Developm	ent Manager		
	Telephone number	(540)832-9	9508		
	Facility Address	174 Horse	shoe Cir		4-19-11-1
	(not P.O. Box)	Gordonsv	lle, VA 22942		
A.2.	Applicant Information	on. If the applicar	it is different from the above, p	rovide the following:	
	Applicant name				
	Mailing Address				
	Contact person Title Telephone number			Numerica 2	
	X owner	owner or operat	or (or both) of the treatment operator	WOTKS?	
		espondence regai	•	ected to the facility or the applicant,	
	facility	_X	applicant		
A.3.	Existing Environme (include state-issued		ovide the permit number of an	y existing environmental permits that have	e been issued to the treatment works
	NPDES VA007	6678		PSD	
	UIC			Other Nutrient Gen	eral Permit VAN030119
	RCRA			Other	
A.4.	Collection System I	Information. Proprovide information	vide information on municipalit n on the type of collection syste	ies and areas served by the facility. Provem (combined vs. separate) and its owner	ide the name and population of each rship (municipal, private, etc.).
	Name		Population Served	Type of Collection System	Ownership
	Shenandoah (Crossing	950	Separate	Private

	Total po	pulation served	950	The state of the s	* 100

FACILITY NAME AND PERMIT NUMBER: Shenandoah Crossing STP VA0076678

A.5.	Indian Country.					
	a. Is the treatment works located in Indian Co.	untry?				
	YesXNo					
	b. Does the treatment works discharge to a re through) Indian Country?	ceiving water that is either	in Indian Country or that is	upstream from (and	d eventually flow	s
	Yes X No					
A.6.	Flow. Indicate the design flow rate of the treatn daily flow rate and maximum daily flow rate for e month of "this year" occurring no more than three	each of the last three years	s. Each year's data must be			
	a. Design flow rate mgd					
	•	Two Years Ago	Last Year	This Yea	ı r	
	b. Annual average daily flow rate	.0468	,0463	.0	- 1432	mgd
	c. Maximum daily flow rate	.0682	.1014		970	mgd
A.7,	Collection System. Indicate the type(s) of col	lection system(s) used by	the treatment plant. Check	all that apply. Also	estimate the pe	rcent
	contribution (by miles) of each.					A.
	Geparate samtary sewer					. %
	Combined storm and sanitary sewer					. %
A.8.	Discharges and Other Disposal Methods.					
	a. Does the treatment works discharge effluer	at to waters of the U.S.2		X _{Yes}		No
	If yes, list how many of each of the following		s the treatment works uses:		<u></u>	
	Discharges of treated effluent	g types of discrininge point.	s the treatment works uses.		1	
	Discharges of untreated or partially treated.	tod affluent				
	iii. Combined sewer overflow points	ated officially				
	·	or to the handwarks)				
	,	of to the headworks)				
	v. Other	.			 	
	b. Does the treatment works discharge effluer that do not have outlets for discharge to wa		er surface impoundments	Yes	Х	No
	If yes, provide the following for each surface					.,,
	Location:	o modernom.				
	Annual average daily volume discharged to	surface impoundment(s)			mgd	
	Is discharge continuous or	intermitter	nt?			
	c. Does the treatment works land-apply treater	d wastewater?		Yes	X	No
	If yes, provide the following for each tand a	oplication site:				
	Location:	and the same of th				
	Number of acres:					
	Annual average daily volume applied to site		Mgd			
	ts land application continu	ous or inte	ermittent?			

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T	worrand approant,	, provide:					
Transporter name:	, ,	•					
Mailing Address:							
Contact person:							
Title:							
Telephone number:							
Name: _ Mailing Address: _	.,						
Mailing Address:							
Contact person:							
Title:							
Telephone number:						- 	
If known, provide the NPI	ES permit number of	the treatment works t	hat receives this dischar	ge.			
Provide the average daily	flow rate from the Irea	tment works into the	receiving facility.				_ mgd
Does the treatment works A.8.a through A.8.d abov					Yes	X	_ No
If yes, provide the following	g <u>for each disposal m</u> e	ethod:					
Description of method (in	cluding location and si	ze of site(s) if applica	ble):				
Annual dailu valuma dian	sed of by this method	<u> </u>					

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WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

	escription of Outfall.	004		
а.	Outfall number	001	<u> </u>	
b.	Location	(City and any if any linebla)		(Zip Code)
		(City or town, if applicable) Louisa		VA `
		(County) 38°04'32" N		(State) 78°08'57" W
		(Latitude)		(Longitude)
¢.	Distance from shore (i	if applicable)		ft.
d.	Depth below surface (if applicable)		ft.
e.	Average daily flow rate	e ·	0.1	mgd
f.	Does this outfall have discharge?	either an intermittent or a period	lic Yes	X No (go to A.9.g.)
	If yes, provide the follo	vuing information:	168	No (go to A.9.g.)
	you, provide the folic	ministerinary		
	Number of times per y	ear discharge occurs:	**************************************	
	Average duration of ea	ach discharge:		
	Average flow per disch	narge:		mgd
	Months in which disch	narge occurs:		<u>.</u>
g.	Is outfall equipped with	h a diffuser?	Yes	X No
10. D	escription of Receiving	j Waters.		
		F * - I * I I	le Creek	
a.	Name of receiving wat	_{ter} Lickinghol	- COOK	
a. b.			York	
	Name of watershed (if		York	
	Name of watershed (if	known)	York	
b.	Name of watershed (if United States Soil Cor Name of State Manag	known) nservation Service 14-digit water	York rshed code (if known):	
b. c.	Name of watershed (if United States Soil Cor Name of State Manag United States Geologic	known) servation Service 14-digit water ement/River Basin (if known): cal Survey 8-digit hydrologic cat	York rshed code (if known):	
b. c.	Name of watershed (if United States Soil Cor Name of State Manag United States Geologic	known) servation Service 14-digit water ement/River Basin (if known): cal Survey 8-digit hydrologic cate eiving stream (if applicable);	York rshed code (if known):	

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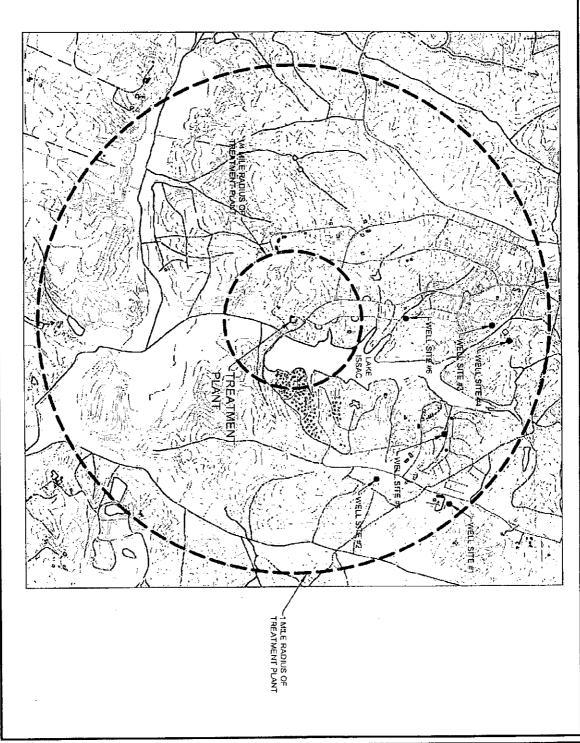
							<u>L</u>			
A.11. Description of T	reatment.									
a. What levels o	of treatment are	provide	d? Chec	k ali that a	pply	<i>I</i> .				
_X I	Primary		X	Sec	cond	lary				
_X	Advanced			Oth	er.	Describe:				
b. Indicate the f	ollowing remov	al rates	(as appli	cable):						
Design BOD	removal <u>or</u> De	sign CE	BOD _s rer	noval				>95	%	:
Design SS re	moval							>95	<u></u> %	
Design P rem	noval							>80	%	
Đesign N ren	noval						<u> </u>	>80	%	
Other			_						%	
c. What type of	disinfection is	used for	the efflu	uent from t	his d	outfall? If disinfe	ction varies by	season, pleas	se describe.	
Chlor	ination			`						
If disinfection	is by chlorinat	ion, is d	echlorina	ation used	for t	this outfall?	_	X Ye	s	No
d. Does the trea	atment plant ha	ve post	aeration'	?			_		s	No
minimum, efflue	ent testing dat	a must	ье base Sampl	ed on at le	ast en	from Octo	and must be	to Octobe	o four and one-ha	
PARAM	ETER				DAIL	LY VALUE			RAGE DAILY VA	
			Va	alue		Units	Value		Units	Number of Samples
pH (Minimum)			7.	42		S.U.			3.	
pH (Maximum)				.76		S.U.				ao e
Flow Rate			0.0	970		mgd °C	.0432 13	!	mgd °C	305 183
Temperature (Winter)	<u> </u>			0		°C	22		°C .	183
Temperature (Summer * For pH please r		m and a	maximu	ım daily va	lue					
POLLUTAN	ĮT	M.	AXIMUN DISCH	I DAILY ARGE		AVERAG	E DAILY DISC	HARGE	ANALYTICAL METHOD	ML/MDL
		Co	nc.	Units		Conc.	Units	Number of Samples		
CONVENTIONAL AND	NONCONVEN	TIONA	L COMP	OUNDS.						
BIOCHEMICAL OXYGE	N BOD-5									
DEMAND (Report one)	CBOD-5	7		mg/L		2.5	mg/L	24	SM 19 5210B	2.00 mg/L
FECAL COLIFORM (E.	Coli)	4.8	3	n/100 rr	٦L	1,3	n/100 mL	24	Colilert/Colilert-1	1 MPN/100 mL
TOTAL SUSPENDED S	OLIDS (TSS)	6.5		mg/L		3,0	mg/L	24	SM 19 2540D	1.00 mg/L
REFER TO TH	IE APPLI	CATI	ON C			D OF PAR W TO DET		WHICH	OTHER PA	RTS OF FORM

2A YOU MUST COMPLETE

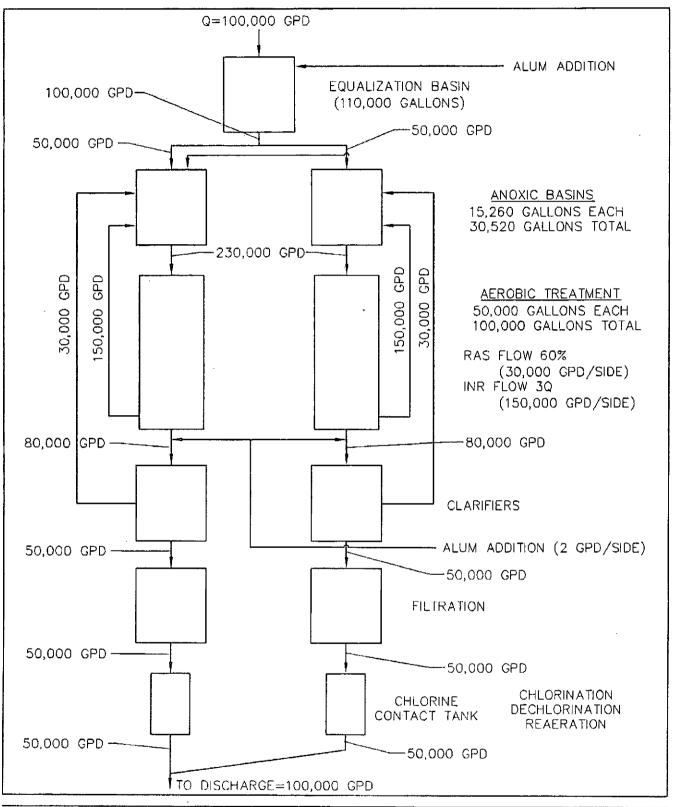
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BASIC APPLICATION INFORMATION

PAF	₹T E	B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
All a	pplic	ants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.		flow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. gpd
		efly explain any steps underway or planned to minimize inflow and infiltration.
	_	
B.2.	ma	pographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This is must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire tal.)
	а.	The area surrounding the treatment plant, including all unit processes.
	b.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	C.	Each well where wastewater from the treatment plant is injected underground.
	đ.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e.	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
B.3.	Pro pov dec trea	see attached. cess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup reasources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and hlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between timent units. Include a brief narrative description of the diagram. e attached.
B.4.	Op	eration/Maintenance Performed by Contractor(s).
		any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a tractor?Yes _X_No
		es, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages ecessary).
	Nar	ne:
	Mai	ling Address:
	Tele	phone Number:
	Res	ponsibilities of Contractor:
	unc trea	eduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or ompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the trends the timent works has several different implementation schedules or is planning several improvements, submit separate responses to question 8.5 for in. (If none, go to question 8.6.)
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
	b.	Indicate whether the planned improvements or implementation schedule are required by local. State, or Federal agencies.
		YesNo



🏢 Dewberry 📗	DATE DEC. 2012	SCALE 1"=1200'	TITLE TOPOGRAPHIC MAP	SHEET NO	
	PROJ. NO. VA0076678		ANDOAH CROSSING NPDES PERMIT		



Dewberry®	DATE DEC. 2012	TITLE TREATMENT SCHEMATIC	SHEET NO.
	PROJ. NO. VA0076678	PROJECT SHENANDOAH CROSSING NPDES PERMIT	2

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c If the	e answer to B.5.b	is "Yes," brieti	y describe, includi	ing new maximun	n daily inflow rate	e (if applicable).		
Fori		anned independ	dently of local, Sta				tation steps listed below al completion dates, as a	
			Schedule	A	ctual Completion			
Imple	lementation Stage	e	MM / DD / '	YYYY M <u>I</u>	1/DD/YYYY			
Be	egin construction		_/_/	_/_	_/			
– En	nd construction		11_		<i></i>			
Be	egin discharge				_//			
– Atı	tain operational le	evel						
e. Have	e appropriate per	mits/clearance	s concerning othe	r Federal/State re	equirements beer	n obtained?	Yes No	
			•			_		
				•				
B.S. EFFLUEN	NT TESTING DA	TA (GREATE	R THAN 0.1 MGI	ONLY).				
required this secti	tion. All information	authority <u>for e</u>	ach outfall through	ata collected thro	ugh analysis cor	ducted using 40	ormation on combined s D CFR Part 136 methods	s. In addition, this
required this secti data mus addresse and one-	l by the permitting tion. All informations to the complex of the complex with Quarter the complex with the compl	authority <u>for e</u> on reported mu A/QC requirem art 136. At a m	ach outfall through ist be based on di ents of 40 CFR P inimum, effluent to	ata collected thro art 136 and other esting data must	ugh analysis cor rappropriate QA be based on at k	ducted using 44/QC requirements three pollut	ormation on combined s D CFR Part 136 methods hits for standard methods ant scans and must be r	s. In addition, this for analytes not
required this secti data mus addresse and one- Outfall N	by the permitting tion. All informations. All informations to comply with Qued by 40 CFR Parall years old.	authority for e on reported mu A/QC requirem art 136. At a m MAXIMI	ach outfall through ist be based on do ents of 40 CFR P inimum, effluent to UM DAILY	ata collected thro art 136 and other esting data must	ugh analysis cor appropriate QA	ducted using 44/QC requirements three pollut	0 CFR Part 136 methods its for standard methods	s. In addition, this for analytes not
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required this section data mustaddresse and one- Outfall N POLLU	by the permitting tion. All informations comply with Qued by 40 CFR Parhalf years old. Number: 001 JTANT	authority for e on reported mu A/QC requirem art 136. At a m MAXIMI DISC Conc.	ach outfall through ist be based on do ents of 40 CFR P inimum, effluent to UM DAILY HARGE	AVERAG	ugh analysis cor r appropriate QA be based on at k	ducted using 44 /QC requirement asst three pollut HARGE Number of	O CFR Part 136 methods ats for standard methods ant scans and must be r	s. In addition, this for analytes not no more than four
required this section data mustaddresse and one- Outfall N POLLU	by the permitting lion. All informations to comply with Qued by 40 CFR Parhalf years old. Number: 001 JTANT	authority for e on reported mu A/QC requirem art 136. At a m MAXIMI DISC Conc.	ach outfall through ist be based on dients of 40 CFR Printmum, effluent to the based on dients of 40 CFR Printmum, effluent to the based on the base	AVERAG	ugh analysis cor r appropriate QA be based on at k	ducted using 44 /QC requirement asst three pollut HARGE Number of	O CFR Part 136 methods ats for standard methods ant scans and must be r	s. In addition, this for analytes not no more than four
required this secti data mus addresse and one- Outfall N POLLU	by the permitting tion. All informations to comply with Qued by 40 CFR Parhalf years old. Number: 001 JTANT JTANT AL AND NONCO	authority for e on reported mu A/QC requirem art 136. At a m MAXIMI DISC Conc.	ach outfall through ist be based on dients of 40 CFR Printmum, effluent to the based on dients of 40 CFR Printmum, effluent to the based on the base	AVERAG	ugh analysis cor r appropriate QA be based on at k	ducted using 44 /QC requirement asst three pollut HARGE Number of	O CFR Part 136 methods ats for standard methods ant scans and must be r	s. In addition, this for analytes not no more than four
required this section data must addresse and one- Outfall N POLLU CONVENTIONA AMMONIA (as I	by the permitting lion. All informations to comply with Qued by 40 CFR Parhalf years old. Number: 001 JTANT JAL AND NONCO N) OTAL RC)	authority for e on reported mu A/QC requirem art 136. At a m MAXIMI DISC Conc.	ach outfall through ist be based on dients of 40 CFR Printmum, effluent to the based on dients of 40 CFR Printmum, effluent to the based on dients of 40 CFR Printmum, effluent to the based of the based on the base	ata collected thro art 136 and other esting data must I	ugh analysis cor r appropriate QA be based on at k GE DAILY DISC Units	ducted using 44/QC requirements as three pollute. HARGE Number of Samples	OCFR Part 136 methods ants for standard methods ant scans and must be r ANALYTICAL METHOD	s. In addition, this for analytes not no more than four ML / MDL
required this section data must addresse and one- Outfall N POLLU CONVENTIONA AMMONIA (as I CHLORINE (TO RESIDUAL, TR DISSOLVED O TOTAL KJELD. NITROGEN (TI	by the permitting lion. All informations to comply with Qued by 40 CFR Parhalf years old. Number: 001 JTANT JTANT OTAL RC) OXYGEN DAHL KN)	authority for e on reported mu A/QC requirem art 136. At a m MAXIMI DISC Conc.	ach outfall through on the based on dients of 40 CFR Pinimum, effluent to the based on dients of 40 CFR Pinimum, effluent to the based on the based	ata collected thro art 136 and other esting data must l AVERAG Conc.	ugh analysis cor appropriate QA be based on at k	HARGE Number of Samples	O CFR Part 136 methods ats for standard methods ant scans and must be r ANALYTICAL METHOD	s. In addition, this for analytes not no more than four ML / MDL
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required this section data must addresse and one- Outfall N POLLU CONVENTIONA AMMONIA (as I CHLORINE (TO RESIDUAL, TR DISSOLVED O TOTAL KJELD. NITROGEN (TI	by the permitting lion. All informations comply with Qued by 40 CFR Parhalf years old. Number: 001 JTANT JAL AND NONCO N) OTAL RC) DXYGEN DAHL KN) JS NITRITE	authority for e on reported mu A/QC requirem art 136. At a m MAXIMI DISC Conc. DIVENTIONAL <ql 986<="" td=""><td>ach outfall through state be based on dients of 40 CFR Pinimum, effluent to the based on dients of 40 CFR Pinimum, effluent to the based on dients of 40 CFR Pinimum, effluent to the based on the based</td><td>AVERAC Conc. CQL. 11.8 0.7</td><td>ugh analysis corresponding to the based on at last the based on at last</td><td>HARGE Number of Samples 305 305</td><td>ANALYTICAL METHOD EPA #330.5 SM 18th-4500-O-G SM 19 4500-NH3C</td><td>ML / MDL 0.008 mg/L 0.50 mg/L</td></ql>	ach outfall through state be based on dients of 40 CFR Pinimum, effluent to the based on dients of 40 CFR Pinimum, effluent to the based on dients of 40 CFR Pinimum, effluent to the based on the based	AVERAC Conc. CQL. 11.8 0.7	ugh analysis corresponding to the based on at last	HARGE Number of Samples 305 305	ANALYTICAL METHOD EPA #330.5 SM 18th-4500-O-G SM 19 4500-NH3C	ML / MDL 0.008 mg/L 0.50 mg/L
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REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM **2A YOU MUST COMPLETE**

Form Approved 1/14/99 FACILITY NAME AND PERMIT NUMBER: OMB Number 2040-0086 Shenandoah Crossing STP VA0076678 BASIC APPLICATION INFORMATION PART C. CERTIFICATION All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted. Indicate which parts of Form 2A you have completed and are submitting: X Basic Application Information packet Supplemental Application Information packet: Part D (Expanded Effluent Testing Data) Part E (Toxicity Testing: Biomonitoring Data) Part F (Industrial User Discharges and RCRA/CERCLA Wastes) Part G (Combined Sewer Systems) ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the

system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Signature Telephone number Date signed

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

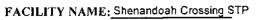
VPDES PERMIT NUMBER: VA0076678

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

۲.	Allann	licants must complete Section A (General Information).
2.	Will thi	is facility generate sewage sludge? XYes _No
	Will thi	is facility derive a material from sewage sludge?Yes X_No
		inswered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material I From Sewage Sludge).
3.	Will th	is facility apply sewage sludge to the land?Yes X_No
	Will se	wage sludge from this facility be applied to the land? X Yes No
		is transferred to the Louisa Regional WWTP (VPDES Permit No. VA0067954) for stabilization and land application
	If you a	inswered No to both questions above, skip Section C.
	If you a	answered Yes to either, answer the following three questions:
	a.	Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo
	b.	Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo
	c.	Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo
	If you a	enswered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you a	answered Yes to a, b or c, skip Section C.
4.	Do you	own or operate a surface disposal site?Yes _X_No
	If Yes,	complete Section D (Surface Disposal).



VPDES PERMIT NUMBER: VA0076678

SECTION A. GENERAL INFORMATION

All applicants must complete this section.

a.	lity Information.					
a.	Facility name: Shenandoah Crossing STP					
b.	Contact person: Tim Bernhardt					
	Title: Development Manager					
	Phone: (540) 832-9508					
c.	Mailing address:					
	Street or P.O. Box: 174 Horseshoe Circle					
	City or Town: Gordonsville Stat	e: VA	Zip: 229	42_		
ď.	Facility location:					
	Street or Route #: 174 Horseshoe Circle					
	County: Louisa					
	City or Town: Gordonsville Stat	e: VA	Zip: 229	42		
e.	Is this facility a Class I sludge management facili					
f.	Facility design flow rate: 0.1			med		
	Total population served: 950					
g. h.	Indicate the type of facility:					
D.	Publicly owned treatment works (POTW)					
	X Privately owned treatment works					
	Federally owned treatment works					
	Blending or treatment operation					
	Surface disposal site					
	Other (describe):		 			
a.	licant Information. If the applicant is different from a Applicant name:				_	
a. b.	Applicant name: Mailing address: Street or P.O. Box: City or Town:	tate:	Zip:		-	
a.	Applicant name: Mailing address: Street or P.O. Box:	tate:	Zip:		-	
a. b.	Applicant name: Mailing address: Street or P.O. Box: City or Town: Contact person: Title:	tate:	Zip:		-	
a. b.	Applicant name: Mailing address: Street or P.O. Box: City or Town: Contact person: Title: Phone: () Is the applicant the owner or operator (or both) of	tate:	Zip:		-	
a. b. c.	Applicant name: Mailing address: Street or P.O. Box: City or Town: Contact person: Title: Phone: () Is the applicant the owner or operator (or both) of X owner X operator	tate:	Zip:			
a. b.	Applicant name: Mailing address: Street or P.O. Box: City or Town: Contact person: Title: Phone: () Is the applicant the owner or operator (or both) of X owner Should correspondence regarding this permit be of X	tate:	Zip:			one)
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a. b. c. d. e.	Applicant name: Mailing address: Street or P.O. Box: City or Town: Contact person: Title: Phone: () Is the applicant the owner or operator (or both) of X owner Should correspondence regarding this permit be a facility Mit Information. Facility's VPDES permit number (if applicable): List on this form or an attachment, all other feder	this facili	Zip: ty? the facility or 78 local permits	the applic	ant? (Check	
a. b. c. d. e. Perm	Applicant name: Mailing address: Street or P.O. Box: City or Town: Contact person: Title: Phone: () Is the applicant the owner or operator (or both) of X owner Should correspondence regarding this permit be of facility mit Information. Facility's VPDES permit number (if applicable): List on this form or an attachment, all other feder received or applied for that regulate this facility's	this facili	Zip: ty? the facility or 78 local permits	the applic	ant? (Check	
a. b. c. d. e. Perm	Applicant name: Mailing address: Street or P.O. Box: City or Town: Contact person: Title: Phone: () Is the applicant the owner or operator (or both) of X owner Should correspondence regarding this permit be of facility Mit Information. Facility's VPDES permit number (if applicable): List on this form or an attachment, all other feder received or applied for that regulate this facility's Permit Number: Type of Permit	tate: this facili frected to VA00766 al, state or sewage slit:	zip:ty? the facility or 78 local permits adge managen	the applic	ant? (Check	
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a. b. c. d. e. Perm a. b.	Applicant name: Mailing address: Street or P.O. Box: City or Town: Contact person: Title: Phone: () Is the applicant the owner or operator (or both) of X owner Should correspondence regarding this permit be of facility Mit Information. Facility's VPDES permit number (if applicable): List on this form or an attachment, all other feder received or applied for that regulate this facility's Permit Number: Type of Permit	this facililirected to VA00766 al, state or sewage slit:	zip:ty? the facility or 78 local permits	the applic	ant? (Check uction appro ices:	vals

VPDES PERMIT NUMBER: VA0076678

- Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
 - Location of all sewage sludge management facilities, including locations where sewage sludge is generated, a. stored, treated, or disposed.
 - Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to Ъ. the applicant within 1/4 mile of the property boundaries.

See attached.

- Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that 6. will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction. Sludge holding tank, periodic decant, and transport to Louisa Regional WWTP.
- Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge 7. generation, treatment, use or disposal the responsibility of a contractor? X Yes ___No If yes, provide the following for each contractor (attach additional pages if necessary). Name: Roto Rooter Mailing address: Street or P.O. Box: PO Box 534

City or Town: Ruckersville State: VA Zip; 22968 Phone: (434) 985-2295

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

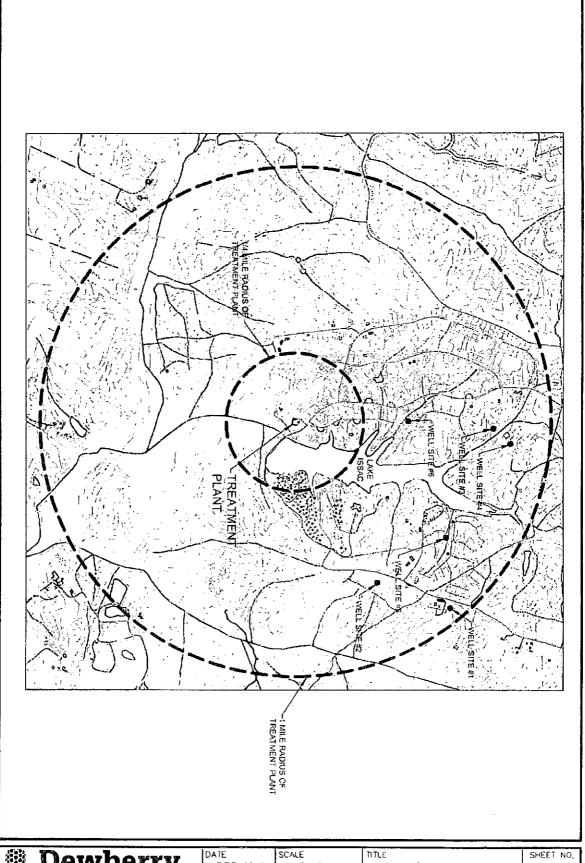
If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s). Hauls sludge to the Louisa Regional Wastewater Treatment Plant.

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic	NO DATA			
Cadmium	1			
Chromium				
Соррег				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium	\/			
Zinc	Y			

9.	Certification. Read and submit the following certification statement with this application. Refer to the instructions
	to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:
	X Section A (General Information)

<u> </u>	_occion is (occion internation)
Х	Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
	Section C (Land Application of Bulk Sewage Sludge)
	Section D (Surface Disposal)



Dewberry Dewberry & Davis, Inc.	DATE DEC. 2012	SCALE 1"=1200'	TITLE TOPOGRAPHIC MAP	SHEET NO.
	PROJ. NO. VA0076678	PROJECT SHENANDOAH CROSSING NPDES PERMIT		1

VPDES PERMIT NUMBER: VA0076678

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

		0/1 /10	
Signature D	ate Signed _	<u> </u>	
Telephone number <u>561</u> 912 80	000		<u></u>

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

VPDES PERMIT NUMBER: VA0076678

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

	int Generated On Site. dry metric tons per 365-day period generated at your facility: 4.5 dry metric tons
dispo	ant Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or sal, provide the following information for each facility from which sewage sludge is received. If you receive se sludge from more than one facility, attach additional pages as necessary.
a.	Facility name:
ъ. b.	Contact Person:
0.	Title:
	Phone ()
c.	Mailing address:
٠.	Street or D.O. Boy.
	Street or P.O. Box: City or Town: State: Zip:
d.	City of Town. State. Lip.
a.	Facility Address:
	(not P.O. Box) Total dry metric tons per 365-day period received from this facility: dry metric tons
e.	Total dry metric tons per 365-day period received from this facility: dry metric tons
f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics
Treat	ment Provided at Your Facility.
a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AClass B X_Neither or unknown
ь.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
C,	Which vector attraction reduction option is met for the sewage sludge at your facility?
	Option 1 (Minimum 38 percent reduction in volatile solids)
	Option 2 (Anaerobic process, with bench-scale demonstration)
	Option 3 (Aerobic process, with bench-scale demonstration)
	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
	Option 5 (Aerobic processes plus raised temperature)
	Option 6 (Raise pH to 12 and retain at 11.5)
	Option 7 (75 percent solids with no unstabilized solids)
	Option 8 (90 percent solids with unstabilized solids)
	X None or unknown
d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:
e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above:
	ration of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and of Vector Attraction Reduction Options 1-8 (EQ Sludge).
	age studge from your facility does not meet all of these criteria, skip Question 4.)
	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:
a.	dry metric tons
b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?

VPDES PERMIT NUMBER: VA0076678

		resno
i.	Sale o	or Give-Away in a Bag or Other Container for Application to the Land.
		lete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this
	questio	n if sewage sludge is covered in Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: dry metric tons
	b.	Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or
		given away in a bag or other container for application to the land.
5.	Shipn	nent Off Site for Treatment or Blending.
	, ,	lete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does
		oly to sewage studge sent directly to a land application or surface disposal site. Skip this question if the sewage studge is covered in
		ons 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)
•	a. L	Receiving facility name: Louisa Regional WWTP
	b.	Facility contact: Wesley Basore
		Title: Chief Wastewater Treatment Plant Operator Phone (540) 967, 1132
		Phone: (540) 967-1122 Mailing address:
	C.	Street or P.O. Box; P.O. Box 9
		City or Town: Louisa State: VA Zip: 23093
	d.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: 4.5 dry
	u.	metric tons
	e.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of
	٠.	all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal
		practices:
		Permit Number: Type of Permit:
		VA 0067954 VPDES
	f.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your
		facility? X Yes No
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?
		Class ANeither or unknown
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to
		reduce pathogens in sewage sludge: Aerobic Digestion per Alternative 2 in 9VAC25-31-710
	g.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the
		sewage sludge? X Yes No ,
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility?
		Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration)
		X Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)
		None unknown
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to
		reduce vector attraction properties of sewage sludge: Alternative 4 in 9VAC25-31-720 B.,4.
		reduce vector attraction properties of sewage should be mornaged in the properties of sewage should be several to the sewage should be sev
	h	
	h.	Does the receiving facility provide any additional treatment or blending not identified in f or g above?
	h.	

If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility

i.

FACILITY NAME: Shenandoah Crossing STP	VPDES PERMIT NUMB
to comply with the "notice and necessar	y information" requirement of 9 VAC 25-31-530.G.

j

VPDES PERMIT NUMBER: VA0076678

Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? Yes X No

If yes, provide a copy of all labels or notices that accompany the product being sold or given away.

k. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? X Yes ___ No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.

Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported.

Sludge is taken from the plant on Route 749 north to Route 33 east to merge onto Routes 33 and 22 to Louisa to the Regional Plant turn in.

7.	Land	Application	of Bulk	Sewage	Sludge.
----	------	-------------	---------	--------	---------

(Complete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6; complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)

- Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: _____dry metric tons
- b. Do you identify all land application sites in Section C of this application? ___Yes ___No If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).
- c. Are any land application sites located in States other than Virginia? Yes No
 If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
- d. Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).
- 8. Surface Disposal.

(Complete Question 8 if sewage sludge from your facilly	ity is placed on a surface disposal site.)
TOURDICIE OUCSUMI O M SCWAZE SINGEE II OM YOUT MER	itt is diaced on a sui mee disposai site, i

- Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: ______ dry metric tons
- b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?
 Yes No

If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.

c. Site name or number:

d. Contact person:

Title:

Phone: ()

Contact is: __Site Owner __Site operator e. Mailing address.

Street or P.O. Bex: State: Zip:

- f. Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: ______ dry metric tons
- g. List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site:

Permit Number: Type of Permit:

9. Incineration.

(Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)

	AME: Shenandoah Crossing STP VPDES PERMIT NUMBER: VA0076678
a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge
	incinerator: dry metric tons Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
	Yes No
	If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send
	sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
C.	Incinerator name or number:
d.	Contact person:
	Title:
	Phone: ()
	Contact is: Incinerator Owner Incinerator Operator
e.	Mailing address.
	Street or P.O. Box: City or Town: State: Zip:
f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
1.	incinerator: dry metric tons
•	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
g.	firing of sewage sludge at this incinerator:
	Permit Number: Type of Permit:
	C. C
	and the second s
-	sal in a Municipal Solid Waste Landfill.
(Compl	ete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information fo
	ere Question 10 it sewage studge from your facility is placed on a militerpal solid waste landfill, Provide the following information to unleipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one
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VPDES Permit Application Addendum

1.	Entity to whom the permit is to be issued: Leisure Capital LLC Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may of may not be the facility or property owner.
2.	Is this facility located within city or town boundaries? Y N
3.	Provide the tax map parcel number for the land where the discharge is located.
4.	TMS 10-17 Parcel V (19.125 acres) For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? None
5.	What is the design average effluent flow of this facility? MGD For industrial facilities, provide the max. 30-day average production level, include units:
	In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Y
	If "Yes", please identify the other flow tiers (in MGD) or production levels: Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plate to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?
6.	Nature of operations generating wastewater. Domestic
	100% of flow from domestic connections/sources
	Number of private residences to be served by the treatment works: 52
	0 % of flow from non-domestic connections/sources
7.	Mode of discharge: X Continuous Intermittent Seasonal
	Describe frequency and duration of intermittent or seasonal discharges:
8.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point:
	X Permanent stream, never dry Intermittent stream, usually flowing, sometimes dry
	Ephemeral stream, wet-weather flow, often dry
	Effluent-dependent stream, usually or always dry without effluent flow Lake or pond at or below the discharge point Other:
9.	Approval Date(s):
	O & M Manual 2010 Sludge/Solids Management Plan NA
	Have there been any changes in your operations or procedures since the above approval dates? Y

Shenandoah Crossings Waste Water Treatment Plant Permit # VA0076678

Sludge Treatment and Disposal Methods:

Sludge is wasted to a concrete holding tank (20,000 gallon capacity) located on the west side of the anoxic tank. Roto-Rooter out of Ruckersville Va. (540-672-9349) is the contracted hauler. Under the conditions of the agreement between Shenandoah Crossings and Roto-Rooter, when they are called to remove sludge, Roto-Rooter identifies an entity who will receive the sludge. Before they arrive for pick-up they have already received a manifest of the entity receiving the sludge. Roto-Rooter pays all fees concerned with disposal directly to whatever entity accepts the sludge. Roto-Rooter then invoices Shenandoah Crossings for their costs for the entire sludge removal service.

Westernik, Anna (DEQ)

From:

Villhauer, Danylo [dvillhauer@Dewberry.com]

Sent:

Friday, March 01, 2013 6:30 PM

To:

Westernik, Anna (DEQ)

Cc:

Tim Bernhardt

Subject:

RE: Shenandoah Crossing STP (VA0076678) - VPDES Permit Renewal Application

Attachments:

Revised VPDES Permit Application.pdf

Importance:

High

Anna,

I have attached the updated VPDES permit application for your review. I have also provided responses in **red** to your below comments.

Please let me know if you need any additional information.

Sincerely, Dan

Dan Villhauer, PE, LEED AP Project Manager

Project Manager Dewberry 4180 Innslake Drive Glen Allen, VA 23060 Office: 804.290.7957 Direct: 804.290.3342 Fay: 804.290.7928

Fax: 804.290.7928 www.dewberry.com

From: Westernik, Anna (DEQ) [mailto:Anna.Westernik@deq.virginia.gov]

Sent: Friday, December 28, 2012 11:41 AM

To: Villhauer, Danylo **Cc:** Tim Bernhardt

Subject: RE: Shenandoah Crossing STP (VA0076678) - VPDES Permit Renewal Application

Dan and Tim,

I have reviewed the received application and have the following comments:

- 1. I must receive copies of signature pages.
 - It is my understanding that this has already been sent.
- 2. Please provide State Corporation Commission Certification.
 - It is my understanding that this has already been sent.
- 3. Please indicate the presence of a Nutrient General Permit in NPDES Form 2A Part A.3.
 - This has been included in the revised permit application.
- 4. Please indicate when sampling was conducted (NPDES Form 2A Part A.12).
 - This has been included in the revised permit application.
- 5. Please indicate how the I&I problem was resolved (NPDES Form 2A Part B.1).

There are no available records indicating an I&I problem. We reviewed water usage records over the winter months to be able to determine if a higher flow is being recorded at the WWTP than the metered water.

However, due to a high volume of metered uses that do not return flow the sewer system such as for pools, this was inconclusive (i.e. the lettered water volume was greater than to WWTP influent volume).

- 6. Provide samples for TDS and Oil and Grease as requested by NPDES Form 2A Part B.6.
 This has been included in the revised permit application. We are still waiting on 1 TDS test result and 2 Oil & Grease test results and will forward this information once we receive it.
- 7. Question 3 of the VPDES Sludge Permit Application Form should indicate that sludge is land applied, even if it is done through the VPDES permit for the Louisa Regional WWTP.

 This has been included in the revised permit application.
- 8. The volume of sludge generated as indicated in Section B.1 of the VPDES Sludge Permit Application Form is much lower than that reported five years ago. Please indicate how this value was derived.

 Plant records indicate that 60,000 gallons of sludge is generated at the WWTP annually. For this estimate, it was assumed that the sludge had a solids concentration of 2% by weight which resulted in a dry weight of approximately 10,000 lbs (4.5 metric tons)
- 9. Provide the tax map and parcel number for the discharge location as requested by the VPDES Permit Application Addendum, Part 3.
 - This has been included in the revised permit application.
- 10. Part 8 of the VPDES Permit Application Addendum should state discharge to a lake or pond. The discharge point is downstream of the dam to a stream.

Thanks,

Anna

From: Villhauer, Danylo [mailto:dvillhauer@Dewberry.com]

Sent: Wednesday, December 05, 2012 9:33 AMgeTo: Westernik, Anna (DEQ)

Cc: Tim Bernhardt

Subject: Shenandoah Crossing STP (VA0076678) - VPDES Permit Renewal Application

Importance: High

Anna,

Good morning. I have attached the VPDES permit renewal application for the Shenandoah Crossing STP (VPDES No. VA0076678). A copy of the application with signatures will follow within a week.

Please do not hesitate to call or email me if you have any questions or need additional information.

Sincerely, Dan

Dan Villhauer, PE, LEED AP Project Manager Dewberry 4180 Innslake Drive Glen Allen, VA 23060 Office: 804.290.7957 Direct: 804.295.3342 Fax: 804.290.7928 www.dewberry.com

Visit Dewberry's website at www.dewberry.com

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Analytical Report

Bluegreen Resort/Shen Crossing ATTN: Richard Randolph 174 Horseshoe Circle Gordonsville, VA 22942

Report Date:

02/01/2013

Job#:

0001293

Customer #:

0001469

Customer PO #: STP

Collected By:

Sample Location: WWTP

Customer

Sample ID#:

0012149

Sample Source: Effluent

Sample Date/Time:	01/15/2013 / 10:16		Date Received:	01/15/2013			
Parameter	Results	Unit	Report Limit	Method	Analysis Date	Time	INIT
Hexane Extractable Material	16.1	mg/l	5.00	EPA 1664A	01/23/2013	15:54	574
Sample ID#: Sample Date/Time:	0012150 01/15/2013 / 08:00		Sample Source: Date Received:	Effluent 01/15/2013			
Parameter	Results	Unit	Report Limit	Method	Analysis Date	Time	INIT
Total Dissolved Solids	140	mg/l	10.0	SM 19 2540C	01/16/2013	16:30	JI

574 Samples subcontracted to VELAP ID# 460160



Analytical Report

Bluegreen Resort/Shen Crossing ATTN: Richard Randolph 174 Horseshoe Circle Gordonsville, VA 22942

Report Date:

02/05/2013

Job#:

0001319

Customer #:

0001469

Customer PO #:

STP

Collected By:

Customer

Sample Location: WWTP

Sample ID#: Sample Date/Time: 0012467

01/22/2013 / 10:26

Sample Source:

Effluent

Date Received:

01/22/2013

				· · · · · · · · · · · · · · · · · · ·			 .
Parameter	Results	Unit	Report Limit	Method	Analysis Date	Time	INIT
Hexane Extractable Material	6.50	mg/l	5	EPA 1664A	02/01/2013	07:43	574

Sample ID#: Sample Date/Time: 0012468

01/22/2013 / 08:00

Sample Source:

Effluent

Date Received:

01/22/2013

Parameter	Results	Unit	Report Limit	Method	Analysis Date	Time	INIT
Total Dissolved Solids	390	mg/l	10.0	SM 19 2540C	01/25/2013	13:50	JI

574 Samples subcontracted to VELAP ID# 460160



Analytical Report

Bluegreen Resort/Shen Crossing ATTN: Richard Randolph 174 Horseshoe Circle Gordonsville, VA 22942

Report Date: Job #:

03/05/2013 0001413

Customer #:

0001469

Customer PO #:

STP

Collected By:

Customer

Sample Location: WWTP

Sample ID#: Sample Date/Time:

0013532

02/19/2013 / 10:25

Sample Source:

Effluent

Method

02/19/2013

Parameter

Results Unit Date Received:

Report Limit

Analysis Date Time INIT

Hexane Extractable Material

<5.00

mg/l

mg/f

5.00 EPA 1664A

02/28/2013 13:02 574

Sample ID#: Sample Date/Time: 0013533

02/19/2013 / 08:00

Sample Source:

Effluent

Method

Parameter Total Dissolved Solids Results Unit

280

Date Received:

Report Limit

10.0

02/19/2013

SM 19 2540C

Analysis Date Time INIT 02/21/2013 15.13

574 Samples subcontracted to VELAP ID# 460160

Commondaealthor Hirginia



State Corporation Commission

CERTIFICATE OF FACT

I Certify the Following from the Records of the Commission:

That LEISURE CAPITAL, L.L.C. is duly organized as a limited liability company under the law of the Commonwealth of Virginia;

That the date of its organization is March 22, 1996; and

That the limited liability company is in existence in the Commonwealth of Virginia as of the date set forth below.

Nothing more is hereby certified.



Signed and Sealed at Richmond on this Date: May 2, 2013

Joel H. Peck, Clerk of the Commission

CISECOM
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